

Isotope	Abundance	Half-life	Decay mode	Energy (MeV)	Neutron cross-section (barns)	Neutron yield (n/MeV)	Neutron spectrum	Neutron energy (MeV)	Neutron flux (n/cm ² /s)	Neutron dose (Sv/h)	Neutron dose rate (mSv/h)
²³⁵ U	0.72%	7.04 × 10 ⁸ y	α	4.68	680	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²³⁸ U	99.27%	4.47 × 10 ⁹ y	α	4.27	2.8	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²³⁹ Pu	0.0047%	2.41 × 10 ⁴ y	α	5.16	740	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴⁰ Pu	0.0071%	1.14 × 10 ⁴ y	α	5.41	760	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴¹ Pu	0.0002%	13.8 y	β	0.01	750	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴² Pu	0.0001%	3.73 × 10 ⁵ y	α	5.59	770	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴³ Pu	0.000004%	4.95 × 10 ³ y	β	0.01	760	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴⁴ Pu	0.00000001%	8.0 × 10 ⁶ y	α	5.79	780	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴⁵ Pu	0.0000000001%	1.6 × 10 ⁷ y	α	5.94	790	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴⁶ Pu	0.000000000001%	1.1 × 10 ⁸ y	α	6.08	800	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴⁷ Pu	0.00000000000001%	1.6 × 10 ⁹ y	α	6.24	810	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴⁸ Pu	0.0000000000000001%	8.14 × 10 ⁹ y	α	6.40	820	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁴⁹ Pu	0.000000000000000001%	2.41 × 10 ¹⁰ y	α	6.56	830	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵⁰ Pu	0.00000000000000000001%	2.29 × 10 ¹¹ y	α	6.72	840	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵¹ Pu	0.0000000000000000000001%	2.14 × 10 ¹² y	α	6.88	850	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵² Pu	0.000000000000000000000001%	1.33 × 10 ¹³ y	α	7.04	860	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵³ Pu	0.00000000000000000000000001%	4.37 × 10 ¹³ y	α	7.20	870	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵⁴ Pu	0.0000000000000000000000000001%	8.0 × 10 ¹³ y	α	7.36	880	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵⁵ Pu	0.000000000000000000000000000001%	1.39 × 10 ¹⁴ y	α	7.52	890	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵⁶ Pu	0.00000000000000000000000000000001%	2.29 × 10 ¹⁴ y	α	7.68	900	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵⁷ Pu	0.0000000000000000000000000000000001%	4.76 × 10 ¹⁴ y	α	7.84	910	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵⁸ Pu	0.000000000000000000000000000000000001%	8.14 × 10 ¹⁴ y	α	8.00	920	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁵⁹ Pu	0.00000000000000000000000000000000000001%	1.33 × 10 ¹⁵ y	α	8.16	930	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01
²⁶⁰ Pu	0.0000000000000000000000000000000000000001%	2.29 × 10 ¹⁵ y	α	8.32	940	1.0	Fast	0.1-10	1.0 × 10 ¹²	0.01	0.01

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